# Problem 1 - Guinea Pig

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

Submit your solutions in the SoftUni judge system at [https://judge.softuni.org/Contests/Practice/Index/2031#0](https://judge.softuni.org/Contests/Practice/Index/2031" \l "0).

*Merry has a guinea pig named Puppy, that she loves very much. Every month she goes to the nearest pet store and buys him everything he needs – food, hay, and cover.*

On the **first three lines**, you will receive **the quantity of food**, **hay**, and **cover**, which Merry buys for a **month (30 days)**. On the **fourth line**, you will receive the **guinea pig's weight**.

**Every day** Puppy eats **300 gr of food**. **Every** **second** day Merry **first feeds the pet**, then gives it a **certain amount of hay** **equal to** **5%** of the rest of the **food**. On **every** **third** day, Merry puts Puppy **cover** with **a quantity of** **1/3** of its **weight**.

**Calculate** whether the quantity of **food, hay, and cover**, will be enough for a **month**.

**If Merry runs out of food, hay, or cover, stop the program!**

## Input

* **On the first line – quantity food in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the second line – quantity hay in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the third line – quantity cover in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**
* **On the fourth line – guinea's weight in kilograms** - afloating-point number in the range **[0.0 – 10000.0]**

## Output

* If the food, the hay, and the cover are enough, print:
  + **"Everything is fine! Puppy is happy! Food: {excessFood}, Hay: {excessHay}, Cover: {excessCover}."**
* If one of the things is not enough, print:
  + **"Merry must go to the pet store!"**

**The output values must be formatted to the second decimal place!**

### Examples

**JS Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["10",  "5",  "5.2",  "1"]) | Everything is fine! Puppy is happy! Food: 1.00, Hay: 1.10, Cover: 1.87 |
| (["1",  "1.5",  "3",  "1.5"  ]) | Merry must go to the pet store! |
| (["9",  "5",  "5.2",  "1"]) | Merry must go to the pet store! |